The listing of claims will replace all prior versions, and listings, of claims in the application:

Listing of Claims:

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Claim 1 (canceled)

Claim 2 (currently amended): The method of claim [[1]] <u>15</u> wherein a plurality of processors of the homogeneous multiprocessor environment are capable of executing a first instruction of a first instruction set and a second instruction of a second instruction set.

Claim 3 (original): The method of claim 2 wherein the first instruction and the second instruction share an identical bit pattern but perform different operations.

Claim 4 (original): The method of claim 3 wherein a first processor of the plurality of processors executes an input/output kernel program, the input/output kernel program including a first portion expressed using the first instruction set and a second portion expressed using the second instruction set.

Claim 5 (original): The method of claim 3 further comprising the step of:

converting a functional program of the functional programs expressed using the first instruction set to an equivalent functional program expressed using the second instruction set.

Claim 6 (previously presented): The method of claim 3 wherein the tasks comprise:

x86 processing; graphic image processing; video processing; audio processing; and communication processing.

Claim 7 (original): The method of claim 3 further comprising the step of: receiving the initial data from a first input/output device.

Claim 8 (original): The method of claim 3 further comprising the steps of: passing the resulting data to a first input/output device.

Claim 9 (original): The method of claim 8 wherein the step of passing the resulting data to the first input/output device further comprises the step of:

passing the resulting data through an intermediary device, wherein the intermediary device is coupled to the first input/output device and to a second input/output device.

Claim 10 (original): The method of claim 9 wherein the step of passing the resulting data through an intermediary device, wherein the intermediary device is coupled to the first input/output device and to a second input/output device further comprises the step of:

automatically adapting to a reallocation of the available processing resources among the tasks.

Claim 11 (original): The method of claim 8 wherein the step of passing the resulting data to a first input/output device further comprises the step of:

passing the resulting data to a mixed-signal device.

Claim 12 (original): The method of claim 3 wherein the step of allocating the available processing resources among the tasks is dynamically adjusted.

Claim 13 (canceled)

Claim 14 (currently amended): The apparatus of claim [[13]] 17 further comprising:

kernel program code configured to dynamically allocate the processing of the program code among the plurality of processors.

Claim 15 (new): A method for providing multimedia functionality in a homogeneous multiprocessor environment comprising the steps of:

queuing tasks;

identifying available processing resources in the homogeneous multiprocessor environment;

allocating the available processing resources among the tasks based on the capabilities of each of the available processing resources and the processing requirements of each of the tasks;

providing to the available processing resources functional programs and initial data corresponding to the tasks;

performing the tasks using the available processing resources to produce resulting data.

Claim 16 (new): A method for providing multimedia functionality in a homogeneous multiprocessor environment comprising the steps of:

queuing tasks;

keeping track, remotely from the resources, of the capabilities of all available processing resources;

identifying available processing resources in the homogeneous multiprocessor environment based solely on the capabilities kept track of remotely;

allocating the available processing resources among the tasks;

providing to the available processing resources functional programs and initial data corresponding to the tasks;

performing the tasks using the available processing resources to produce resulting data.

Claim 17 (new): Apparatus comprising:

a plurality of processors coupled to a bus;

an input/output interface coupled to the bus;

a plurality of input/output devices coupled to the input/output interface, the plurality of processors processing program code configured to perform a plurality of tasks, the program code comprising:

program code configured to cause a first portion of the plurality of processors to interact with a first input/output device of the plurality of input/output devices;

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program code configured to cause a second portion of the plurality of processors to interact with a second input/output device of the plurality of input/output devices;

program code configured to cause a second portion of the plurality of processors to emulate a specific microprocessor instruction set;

wherein the first portion of the plurality of processors provide functionality as found in a first application-specific subsystem and wherein the first input/output device is the first application-specific subsystem; and

wherein the second portion of the plurality of processors provide functionality as found in a second application-specific subsystem and wherein the second input/output device is the second application-specific subsystem.